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Scientific Abbreviation And Acronym list



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Scientific Abbreviation and Acronym list

A

A = Ampere

AAM = Atmospheric Angular Momentum

AAOE = Airborne Antarctic Ozone Experiment

AASE = Airborne Arctic Stratospheric Expedition

AATSR = Advanced Along-Track Scanning Radiometer

A3RI = Antarctic Astronomy and Astrophysics Research Institute

ABBA = Automated Biomass Burning Algorithm

ABI = Advanced Baseline Imager (GOES)

ABLE = Atmospheric Boundary Layer Experiment

ABS = Advanced Baseline Sounder

ac or AC = alternating current

ACARS = Aeronautical Radio, Inc. Communication and Recording System

ACC = Atlantic Climate Change

ACE = Aerosol Characterization Experiment

ACIS = ACademic Information Services (IBM)

ACRIM = Active Cavity Radiometer Irradiance Monitor (EOS)

ACR = Active Cavity Radiometer

ACRIM = Active Cavity Radiometer Irradiance Monitor

ACSYS = Arctic Climate System Study



ACMSU = Atmospheric Chemistry Modelling Support Unit

ACSOE = Atmospheric Chemistry Studies in the Oceanic Environment

ADAAC = Affiliated Distributed Active Archive Center

ADALT = Advanced Radar Altimeter

ADC = Astronomical Data Center

ADC = Atlantic Data Coverage (Meteosat)

ADC = Affiliated Data Center

ADCLS = Advanced Data Collection and Location System

ADEOS = Advanced Earth Observing Satellite (Japan)

ADPE = Automatic Data Processing Equipment

ADOM = Acid Deposition and Oxidant Model

ADR = Adiabatic Demagnetization Refrigerator

AE = Atmosphere Explorer

AEA = Atomic Energy Authority (UK)

AER = Atmospheric and Environmental Research

AERI = Atmospheric Emitted Radiance Interferometer

AERONOX = Impact of NO_x Emissions from Aircraft upon the Atmosphere

AES = Atmospheric Environment Service (Canada)

AESA = Atmospheric Effects of Stratospheric Aircraft

AF = Air Force

AFB = Air Force Base

AFG = Air Force Geophysics Laboratory

AFOS = Automation of Field Operations and Services (NWS)



AFOSR = Air Force Office of Scientific Research

AFES = Alternative Fluorocarbons Environmental Acceptability Study

AGFS = Aviation Gridded Forecast System

AGL = Above Ground Level

AGO = Automated Geophysical Observatories

AGU = American Geophysical Union

AGWP = Absolute Global Warming Potential

AHSRL = Arctic High Spectral Resolution Lidar

AIRS = Atmospheric Infrared Sounder

AIS = Airborne Imaging Spectrometer

AJ = Astronomical Journal

a.k.a. = also known as

AL = Aeronomy Laboratory (NOAA, US)

ALE/GAGE = Atmospheric Lifetime Experiment/Global Atmospheric Gases Experiment

ALERT = Automated Local Evaluation in Real Time

ALEXI = Atmospheric Land EXchange Inversion (CIMSS)

ALPEX = ALPine EXperiment

ALSPP = Atmospheric and Land Surface Processes Project

ALT = ALTimeter

ALPTRAC = High Alpine Aerosol and Snow Chemistry Study (EUROTRAC)

AMANDA = Antarctic Muon and Neutrino Detector Array

AMI = Active Microwave Instrument

AMIP = Atmospheric Model Intercomparison Project



AMRIR = Advanced Medium Resolution Imaging Radiometer

AMPS = Antarctic Mesoscale Prediction System

AMRIR = Advanced Medium Resolution Infrared Radiometer

AMS = American Meteorological Society

AMSAS = AOA Meteorological Satellite Analysis System

AMSR-E = Advanced Microwave Scanning Radiometer for EOS

AMSU = Advanced Microwave Sounder Unit (EOS)

AMSR = Advanced Microwave Scanning Radiometer

AMSU-A = Advanced Microwave Sounding Unit-A

AMTS = Advanced Moisture and Temperature Sounder

ANL = Argonne National Laboratory

AO = Announcement of Opportunity

AOA = Airborne Optical Adjunct

AO&SS = Atmospheric, Oceanic and Space Sciences (building)

AOIPS = Atmospheric and Oceanographic Information Processing System

AOL = Airborne Oceanographic Lidar

AOT = Aerosol Optical Thickness

AP = Anomalous Propagation

APAFO = Advanced Particles and Fields Observer

APAR = Absorbed Photosynthetically Active Radiation

APP = AVHRR Polar Pathfinder

APT = Automatic Picture Transmission

APU = Auxiliary Power Unit



ARA = Appletalk Remote Access

ARC = Arctic Radiation and Chemistry experiment

ARC = Ames Research Center

APE = Airborne Polar Experiment

ARGOS+ = Argos Data Collection and Location System (France)

ARISTOTELES = Applications and Research Involving Space Technologies

Observing the Earth's Field from a Low Earth Orbiting Satellite

ARM = Atmospheric Radiation Measurement Program (DOE)

ARPS = Advanced Regional Prediction System

ARSLOE = Atlantic Remote Sensing Land/Ocean Experiment

A-SAR = Advanced Synthetic Aperture Radar

A-SCAT = Advanced Scatterometer

ASA = Academic Staff Assembly

ASA = Antarctic Support Associates

ASADA = Automated Smoke/Aerosol Detection Algorithm

ASCII = American Standards Committee for Information Interchange

ASE = Air-Sea Exchange experiment (EUROTRAC)

ASF = Alaskan SAR Facility

ASHOE = Airborne Southern Hemisphere Ozone Experiment

ASI = Agenzia Spaziale Italiana

ASR = Airport Surveillance Radar

ASTER = Advanced Spaceborne Thermal Emission and Reflection radiometer

ASTEX = Atlantic STRatus EXperiment



AT&T = American Telephone & Telegraph

ATLAS = Atmospheric Laboratory for Applications and Science

ATLID = Atmospheric Lidar

ATM = Atmospheric Transport Model

ATMOS = Atmospheric Trace Molecules observed by Spectroscopy

ATS = Applications Technology Satellite

ATSR = Along Track Scanning Radiometer

AU = Astronomical Unit

AURA = Association of Universities for Research in Astronomy

AURIO = Auroral Imaging Observatory

AVCS = Advanced Vidicon Camera System

AVHRR = Advanced Very High-Resolution Radiometer

AVHRR = GAC AVHRR Global Area Coverage

AVHRR LAC = AVHRR Local Area Coverage

AVIRIS = Airborne Visible and Infrared Imaging Spectrometer

AVNIR = Advanced Visible and Near-Infrared Radiometer

AWI = Alfred Wegener Institute

AWIPS-90 = Advanced Weather Interactive Processing System for the 90's

B

BAS = British Antarctic Survey

BADC = British Atmospheric Data Centre

BAHC = Biosphere Aspects of the Hydrological Cycle (IGBP programme)

BAPMoN = Background Air Pollution Monitoring Network (WMO)

BASE-A = Biomass burning Airborne and Spaceborne Experiment-Amazonia

baud = one bit per second

BBS = Bulletin Board System

BBXRT = Broad Band X-Ray Telescope

BCS = Broadband Cable System (UW)

BEF = Bromine Efficiency Factor

BIATEX = Biosphere-Atmosphere Exchange of Pollutants (EUROTRAC)

BIBEX = Biomass Burning Experiment (IGAC programme)

BISA = Belgium Institute for Space Aeronomy (Belgium)

bit = binary digit

BITNET = Because It's Time NETwork

BLCMD = BiLevel CoMmand (DXS)

BLIS = Boundary Layer Instrumentation System

BMFT = Bundesministerium für Forschung und Technologie (Germany)

BNSC = British National Space Centre

BODC = British Oceanographic Data Centre

BOREAS = Boreal Ecosystem - Atmosphere Study

BNL = Brookhaven National Laboratory



BrO = bromine monoxide

bpi = bits per inch

bps or BPS = bits per second

BTd = brightness temperature difference

BTW = By The Way (e-mail)

BUFR = Binary Universal FoRm

BUV = Backscattered UltraViolet

C

C = Celsius, centigrade

Cal/Val = Calibration/Validation

CAC = Centre for Atmospheric Chemistry (York, Canada)

CACGP = Commission of Atmospheric Chemistry and Global Pollution (IAMAP)

CAD = Computer Aided Design

CALS = College of Agricultural and Life Sciences (UW–Madison)

CAMEX = Convection and Moisture Experiment

CAMS = Calibrated Airborne Multispectral Scanner

CaPE = Convection and Precipitation/Electrification Experiment (STORM)

CAPE = Convective Available Potential Energy

CAPPI = Constant Altitude Plan Position Indicator

CAPS = Center for the Analysis and Prediction of Storms

CARA = Center for Astrophysical Research in Antarctica

CART = Cloud And Radiation Testbed (DOE/ARM)

CAS = Centre for Atmospheric Science (Cambridge, UK)



CASPR = Cloud and Surface Parameter Retrieval

CAT = Carbon Dioxide Absorption Technique

CCD = Charge-Coupled Device

CCLRC = Council for the Central Laboratory of the Research Councils (UK)

CCM = Community Climate Model

ccn = cloud condensation nucleus

CCRS = Canada Centre for Remote Sensing

CCT = Computer Compatible Tape

CD = Compact Disc

CD-ROM = Compact Disk-Read Only Memory

CDCR = Conceptual Design and Cost Review

CDF = Common Data Format

CDIAC = Carbon Dioxide Information Analysis Center

CDOS = Customer Data and Operations System

CD-ROM = Compact Disc - Read Only Memory

CEC = Commission of the European Communities

CEES = Committee on Earth and Environmental Sciences

CEO = Centre for Earth Observation

CEOS = Committee on Earth Observation Satellites

CERES = Clouds and Earth's Radiant Energy System

CET = Central England Temperature

CFC = ChloroFluoroCarbon

CFTC = Commodity Futures Trading Commission



CFC-11 = CCl_3F , trichlorofluoromethane, Freon-11

CFC-12 = CCl_2F_2 , dichlorodifluoromethane, Freon-12

CFCs = chlorofluorocarbons

CGAM = Centre for Global Atmospheric Modelling

CG = Center of Gravity (DXS)

CGC = Climate and Global Change

CGCP = Canadian Global Change Program

CGI = Common Gateway Interface (Internet)

CGM = Computer Graphics Metafile

CH_3Cl = methyl chloride

CH_4 = methane

CHAMEX = Cloud Height And Motion EXperiment

CHAMMP = Computer Hardware, Advanced Mathematics and Model Physics

CIAP = Climatic Impact Assessment Program

CIASTA = Cooperative Institute for Atmospheric Sciences and Terrestrial Applications

CICA = Center for Innovative Computer Applications

CICS = Cooperative Institute for Climate Studies (U.Maryland)

CIDC = Climatology Interdisciplinary Data Collection

CIESIN = Consortium for International Earth Science Information Networks

CIMSS = Cooperative Institute for Meteorological Satellite Studies

CIRA = COSPAR International Reference Atmosphere

CIRES = Cooperative Institute for Research in Environmental Sciences (US)

CIRRUS = Cloud InfraRed Radiometer for UnESS



CIRTL = Center for the Integration of Research, Teaching and Learning

CIT = California Institute of Technology

CITA = Center for IT Accommodation (GSA)

CITE = Cargo Integration and Test Equipment (DXS)

CITE = Chemical Instrument Test and Evaluation (NASA GTE)

CLASS = Cross-chain Loran Atmospheric Sounding System

CLAVR = Clouds from AVHRR

CLAES = Cryogenic Limb Array Etalon Spectrometer

CLIVAR = Climate Variability and Predictability

CLP = Chlorine Loading Potential

CIO = chlorine monoxide

CIONO₂, CINO₃ = chlorine nitrate

CLRC = Central Laboratory of the Research Councils (UK)

CLS = Cloud Lidar System

CMA = China Meteorological Administration

CMAP = Climate Modeling, Analysis and Prediction Program

cm = centimetre

CMDL = Climate Monitoring and Diagnostics Laboratory

CMS = Configuration Management System

CNA = Comisión Nacional del Agua (Mexico)

CNES = Centre National d'Etudes Spatiales (France)

CNR = Consiglio Nazionale delle Ricerche (Italy)

CNRM = Centre National de Recherches Météorologiques (France)



CNRS = Centre National de la Recherche Scientifique (France)

COADS = Comprehensive Ocean Atmosphere Data Set

COAPEC = Coupled Ocean-Atmosphere Processes and European Climate

CO = carbon monoxide

CO₂ = carbon dioxide

Co-I = Co-Investigator

COADS = Comprehensive Ocean-Atmosphere Dataset

COARE = Coupled Ocean-Atmosphere Research Experiment (TOGA)

CODAR = CORrelation Detection And Ranging

COHMEX = COoperative Huntsville Meteorological EXperiment

Co-I = CoInvestigator

COMET = Cooperative Program for Operational Meteorology Education and Training
(NOAA and UCAR)

COMSAT = COMmunications SATellite

CONUS = CONTinental (or CONterminus) United States

COSPAR = Committee On SPace Research

COSTAR = Corrective Optics Space Telescope Axial Replacement

COTS = Commercial Off-The-Shelf

COSPAR = Committee on Space Research

CPC = Climate Prediction Center

cpi = characters per inch

CPL = Cloud Physics Lidar

CPR = CardioPulmonary Resuscitation



CPSC = Consumer Product Safety Commission

CREST = Cooperative Remote Sensing Science and Technology Center (Puerto Rico)

CrIS = Cross-track Infrared Sounder

CrO₂ = Chromium Oxide

CRU = Climate Research Unit (East Anglia)

CRYSYS = Cryospheric System

CRT = Cathode Ray Tube

CS = Computer Science

CSA = Canadian Space Agency

CS&S = Computer Sciences and Statistics (UW-MSN)

CSA = Canadian Space Agency

CSEPA = Chinese State Environment Protection Agency (China)

CSES = Center for the Study of Earth from Space (Univ of Colorado)

CSIRO = Commonwealth Scientific and Industrial Research Organization (Australia)

CSI = Coastal Studies Institute (LSU)

CSIRO = Commonwealth Scientific and Industrial Research Organization

CSIS = Centralized Storm Information System

CSM = Comprehensive System Model

CSMP = Climate System Modeling Project

CSREES = Cooperative State Research, Education, and Extension Service

CST = Central Standard Time

CST = Convective-Stratiform Technique

CSU = Colorado State University (Ft. Collins)



CTD = Conductivity-Temperature-Depth

CTM = Chemical Transport Model

CTP = Cloud-Top Pressure

CTS = Committee on Teaching of Science

CU = University of Colorado

CVS = Concurrent Versions System

CWB = Central Weather Bureau (Taiwan)

CZCS = Coastal Zone Color Scanner

D

DAAC—Distributed Active Archive Center

DADS— Data Archive and Distribution System

DAMTP— Department of Applied Mathematics and Theoretical Physics (Cambridge)

DAO—Data Assimilation Office (NASA)

DARPA—Department of Defense Advanced Research Projects Agency

DASD—Direct Access Storage Device

DAT—Digital Audio Tape

DC—Detector Controller (DXS)

dc—direct current

DCP— Data Collection Platform

DCS—Data Collection System (NOAA polar orbiting satellites)

DDE—Distributive Data Environment (McIDAS)

DDS—Domestic Data Service (NWS)

DE—Detector Electronics (DXS)



DEC—Digital Equipment Corporation

DESY—Deutsches Elektronen-SYNchrotron

DFAD—Digital Feature Analysis Data

DFRC—Dryden Flight Research Center

DGVM—Dynamic Global Vegetation Model (GAIM)

DIAL —Differential Absorption Lidar

DIFAX—Digital FACsimile map

DILHR—Department of Industry, Labor & Human Relations

DIS—Data and Information System

disc—optical media (CDs)

DISEL—Diseno e Ingenieria de Systemas Electronicos

disk—magnetic media (floppies)

DIU—Detector Interface Unit (DXS)

DLESE—The Digital Library for Earth System Education

DLL (or .dll)—Dynamic Link Libraries

DLR— Deutsche Forschungsanstalt fur Luft-und Raumfahrt (Germany)

DLS— Dynamic Limb Sounder

DMA—Defense Mapping Agency

DMAP—Digital MAPping, charting and geodesy analysis program (USN)

DMIC—Deputy Meteorologist-In-Charge (NWS)

DMS—DiMethylSulphide

DMSP—Defense Meteorological Satellite Program (USAF)

DNAG—Decade of North American Geology



DNR—Department of Natural Resources

DNS—Domain Name System

DOA—Department of Administration (U.S.)

DOC—Department of Commerce (U.S.)

DOD—Department of Defense (U.S.)

DODS—Distributed Ocean Data System

DOE—Department of Energy (U.S.)

DOI—Department of the Interior (U.S.)

DoIT—Department of Information Technology (UW-MSN)

DOJ—Department of Justice (U.S.)

DOL—Department of Labor (U.S.)

DORIS—Doppler Orbitography and Radiopositioning Integrated by Satellite (EOS)

DOS—Department of State (U.S.)

DOS—Disk Operating System

DOT—Department of Transportation (U.S.)

DoY— Day of Year

(D)PR —Dual Precipitation Radar

DPI—Department of Public Instruction

DPI—Derived Product Imagery

DPS—Detector Power Supply

DPS—Division of Planetary Science

DPSS—Data Processing Services Subsystem

DRIBU—DRIfting BUoy data



DRS —Data Relay Satellite

DSB —Direct Sounding Broadcast

DSN —Deep Space Network

DS2—Second Dark Spot (Neptune)

DDP—Deep Sea Drilling Project

DSP—Digital Signal Processing

DST—Data Systems Test

DTE—Data Terminal Equipment

DTED—Digital Terrain Elevation Data

DU— Dobson Unit

DWS— Doppler Wind Sensor

DXS—Diffuse X-ray Spectrometer

E

E&CE—Electrical and Computer Engineering

EAA—Experimental Aircraft Association

EADS—Engineering and Data Analysis System

EarthKAM—Earth Knowledge Acquired by Middle-schoolers

EASOE— European Arctic Stratospheric Ozone Experiment

E-LIDAR— Experimental Lidar

EBCDIC—Extended Binary-Coded Decimal Interchange Code

ECA—Effective Cloud Amount

ECB—Educational Communications Board

EC —European Commission



ECC—electrochemical concentration cell

ECMWF—European Centre for Medium-range Weather Forecasts

ECOSOC—ECONomic and SOCIAL Council (UN)

ECS— EOSDIS Core System

ED—Department of Education (U.S.)

EDAS—Eta Data Assimilation System

EDC—EROS Data Center

EESC— equivalent effective stratospheric chlorine

EGA—Enhanced Graphics Adapter

EGSE—Electrical Ground Support Equipment

EHWD—Enhanced Hot Water Drill

EIA—Electronic Industries Association

EM—ElectroMagnetic

e-mail or email—electronic mail

EMC—ElectroMagnetic Compatibility

EMC—Environmental Modeling Center (NWS Center)

EMEX— Equatorial Mesoscale Experiment

EMI—ElectroMagnetic Interference

EMT—Emergency Medical Technician

ENSO—El Niño/Southern Oscillation

ENVISAT— Environmental Satellite

EOF— Empirical Orthogonal Function

EOS—Earth Observing System



EOSDIS—Earth Observing System Data and Information System

EOSP—Earth Observing Scanner Polarimeter

EPA—Environmental Protection Agency (U.S.)

EPS—European Polar Satellite

ER-2—Earth Resources (plane), #2 (NASA)

ERA—Employee Reimbursement Account

ERBE—Earth Radiation Budget Experiment

ERBS—Earth Radiation Budget Satellite

ERICA—Experiment on Rapidly Intensifying Cyclones over the Atlantic

ERL—Environmental Research Laboratory (NOAA)

EROS—Earth Resources Observing System

ERS—ESA Remote Sensing satellite

ERSAF—Environment Remote Sensing Analysis Facility

ERSC—Environmental Remote Sensing Center (IES)

ESA—European Space Agency

ESDD—Earth Science Data Directory

ESE—Earth Science Enterprise (NASA)

ESMR—Electrically Scanning Microwave Radiometer

ESOC—European Satellite Operations Center

ESSA—Environmental Science Services Administration (preceded NOAA)

ESSP—Earth System Science Pathfinder Mission (ESSP)

ESTEC—European Space TEchnical Center

ETAC—Environmental Technical Applications Center (USAF)



EUMETSAT—European organization for the exploitation of METeorological SATellites

EVA—Extra Vehicular Activity

EXPORT— European eXport of Precursors and Ozone by long-Range Transport

EXPRESSO— Experiment for Regional Sources and Sinks of Oxidants

F

FASTEX --Fronts and Atlantic Storm-Track EXperiment

FDH --fixed dynamical heating

FIFE --First ISLSCP Field Experiment

FIRE --First ISCCP Regional Experiment

FIRETRACC --Firn Record of Trace Gases Relevant to Atmospheric Chemical Change

FNRS --Fonds National de la Recherche Scientifique (Belgium)

FOT --Flight Operations Team

FOV --Field of View

FTIR --fourier transform infrared spectrometer

FTP --File Transfer Protocol

FY --Fiscal Year

G

g =gram

GAC= Global Area Coverage

GAIM= Global Analysis, Interpretation and Modeling

GARP= Global Atmospheric Research Program

Gbps= gigabits per second

GCC= Global Change Category



GCE= Ground-base Cloud Experiment (EUROTRAC)

GCDIS= Global Change Data and Information System

GCM =General Circulation Model

GCOS =Global Climate Observing System

GCRP =Global Change Research Program

GCTE =Global Change and Terrestrial Ecosystems Program of the IGBP

GEDEX= Greenhouse Effect Detection Experiment

GEMS =Global Environmental Monitoring System

Geosat =Geodesy Satellite (Navy)

GERB= Geostationary Earth Radiation Budget Experiment

GEWEX= Global Energy and Water cycle Experiment

GFDL =Geophysical Fluid Dynamics Laboratory (NOAA US)

Gflops =Billions of Floating Point Instructions per Second

GGI =GPS Geoscience Instrument

GGs =Global Geospace Science

GHz =gigahertz

GIMMS= Global Inventory Modeling and Monitoring Study

GIS =Geographic Information System

GISS =Goddard Institute for Space Studies

GISST =Global sea Ice Coverage and Sea Surface Temperature

GLAS =Geoscience Laser Altimeter System (formerly GLRS-A)

GLI =Global Imager

GLOMAC= Global Modelling of Atmospheric Chemistry (EUROTRAC)



GLOSS =Global Sea Level Observing System

GLRS-A =Geoscience Laser Ranging System-Altimeter (see GLAS)

GLRS-R =Geoscience Laser Ranging System-Ranger

GMS =Geostationary Meteorological Satellite

GMSLP= Global Mean Sea Level Pressure

GMT =Greenwich Mean Time

GENEMIS= Generation of European Emission Data (EUROTRAC)

GOES =Geostationary Operational Environmental Satellite

GOME =Global Ozone Monitoring Experiment

GOMOS =Global Ozone Monitoring by Occultation of Stars

GOMR =Global Ozone Monitoring Radiometer

GOOS =Global Ocean Observing System (ICSU/IOC-UNESCO/WMO)

GOS =Geomagnetic Observing System

GOSTA =Global Ocean Surface Temperature Atlas

GPC= Global Processing Center

GPCP= Global Precipitation Climatology Project

GPS =Global Positioning System

GPSDR= Global Positioning System Demonstration Receiver

GRID =Global Resource Information Database (UNEP)

GSFC =Goddard Space Flight Center

GTE =Global Tropospheric Experiment

GTCE =Global Tropospheric Chemistry Experiment

GTS =Global Telecommunications System



GUI =Graphical User Interface

GWP =Global Warming Potential

H

H₂O= water

H₂O₂= hydrogen peroxide

HadCM= Hadley Center Model

HadRT =Hadley Center Radiosonde temperature

HALOE =Halogen Occultation Experiment

HALLIP =Heterogeneous and Liquid Phase Processes (EUROTRAC)

HAPEX =Hydrological Atmospheric Pilot Experiment

HBr =hydrogen bromide

HCHO,= CH₂O formaldehyde

HCFCs =Hydrochlorofluorocarbons

HCl =hydrogen chloride

HCMM/AEM-1 =Heat Capacity Mapping Mission/Applications Explorer Mission

HCN= hydrogen cyanide

HDF =Hierarchical Data Format

HDP =Human Dimensions of Global Environmental Change (ISSC programme)

HF =hydrogen fluoride

HFC =hydrofluorocarbon

HIMSS =High-Resolution Microwave Spectrometer Sounder (replaced by

MIMR)

HIRDLS =High-Resolution Dynamics Limb Sounder



HIRLAM =High Resolution Limited Area Model

HIRIS =High Resolution Imaging Spectrometer

HIRS =High Resolution Infrared Radiation Sounder

HIS =High Resolution Interferometer Sounder

HMMR =High-Resolution Multifrequency Microwave Radiometer

HNO₃ =nitric acid

HO_x =odd hydrogen (OH, HO₂, H₂O₂)

HOCl =hypochlorous acid

HRDI =High Resolution Doppler Imager

HROI =High Resolution Optical Instrument

HRPT =High Resolution Picture Transmission (e.g., from the AVHRR)

HRV =High Resolution Video (SPOT)

HYREX =Hydrological Radar Experiment

Hz =hertz (cycles per second)

I

IASI= Improved Atmospheric Sounding Interferometer

IAU =International Astronomical Union

ICAIR= International Centre for Antarctic Information and Research

ICC =Instrument Control Center

ICE =International Cometary Explorer

ICF =Instrument Control Facility

ICSU= International Council of Scientific Unions

ICWG= International Coordination Working Group

IDS =Interdisciplinary Science

IEA =International Energy Agency

IEEE =Institute of Electrical and Electronic Engineers

IEOS =International Earth Observing System

IFS =Integrated Forecast System

IFOV= Instantaneous Field of View

IGAC =International Global Atmospheric Chemistry Program of the IGBP

IGAP =International Global Aerosol Program

IGBP =International Geosphere - Biosphere Programme

II =Interdisciplinary Investigator

ILAS= Improved Limb Atmospheric Spectrometer

IMAU= Institute for Marine and Atmospheric research Utrecht

IMB =Investigator of Micro-Biosphere

IMG =Interferometric Monitor of Greenhouse Gases

IMS =Information Management System

INPA =Instituto Nacional de Pesquisas da Amazonia (Brazil)

INPE =Instituto Nacional de Pesquisas Espaciais (Brazil)

INRA =Institut National de Recherche Agronomiques (France)

INSA =Institut National des Sciences Appliquées (France)

IOC =Intergovernmental Oceanographic Commission

IOTP =International Ozone Trends Panel

IPAR =Intercepted Photosynthetically Active Radiation

IPCC =Intergovernmental Panel on Climate Change



IPEI =Ionospheric Plasma and Electrodynamics Instrument

IPOC =International Partner Operations Center

IR =Infrared

IRIS= Infrared Interferometer Spectrometer

IRTS =Infrared Temperature Sounder

ISAMS= Improved Stratospheric and Mesospheric Sounder

ISAS= Institute of Space and Astronautical Sciences (Japan)

ISCCP= International Satellite Cloud Climatology Project

ISEE= International Sun-Earth Explorer

ISLSCP= International Satellite Land Surface Climatology Project

ISSC= International Social Science Council

IST= Instrument Support Terminal

ISTP= International Solar Terrestrial Physics

ISY =International Space Year (1992)

ITCZ= Inter-Tropical Convergence Zone

ITE =Institute for Terrestrial Ecology

ITIR =Infrared Thermal Imaging Radiometer (renamed ASTER)

IUPAC =International Union of Pure and Applied Chemistry

IV&V =Independent Verification and Validation

IWG =Investigators Working Group

IWGDMGC= Interagency Working Group on Data Management for Global Change

J

JCMM Joint Centre for Mesoscale Meteorology

JEOS Japanese Earth Observing Satellite

JEM Japanese Experiment Module

JERS-1 Japanese Earth Remote-sensing Satellite-1

JGOFS Joint Global Ocean Flux Study (IGBP programme)

JMA Japan Meteorological Agency

JPL Jet Propulsion Laboratory

JPOP Japanese Polar Orbiting Platform

JSC Johnson Space Center

K

K kelvin, unit of thermodynamic temperature (the number of kelvins equals the number of degrees Celsius plus 273.15, i.e., $t_K = t_{\text{degree C}} + 273.15$)

kbits kilobits per second

keV kilo electron volts

kg kilogram

kHz kilohertz

kJ kilojoule (energy measure)

km kilometer

KNMI Koninklijk Nederlands Meteorologisch Instituut

(Royal Netherlands Meteorological Institute)



kW kilowatt

L

LAC= Local Area Coverage

LACTOZ =Laboratory Studies of Chemistry Related to Tropospheric Ozone

(EUROTRAC)

LAGEOS= Laser Geodynamics Satellite

LAMBADA= Large Scale Atmospheric Moisture Balance of Amazonia using Data

Assimilation (BAHC/GEWEX)

Landsat= Land Remote Sensing Satellite

LANL= Los Alamos National Laboratory

LaRC= Langley Research Center

LAWS= Laser Atmospheric Wind Sounder

LEFI= Local Electric Field Instrument

LERTS= Laboratoire d'Etudes et de Recherches en Teledetection Spatiale (France)

LIDAR= Light Detection and Ranging Instrument

LIMS =Limb Infrared Monitor of the Stratosphere

LIS =Lightning Imaging Sensor

LITE= Lidar In-space Technology Experiment

LLNL= Lawrence Livermore National Laboratory

LOICZ= Land Ocean Interactions in the Coastal Zone (IGBP)

LR= Laser Retroreflector

LRA= Laser Retroreflector Array

LRPT= Low-resolution Picture Transmission

LWIR= Long-Wavelength (Thermal) Infrared

M

M= metre

Magsat= Magnetic Field Satellite

MAESA= Measurements for Assessing the Effects of Stratospheric Aircraft

MAHLOVS= Middle and High Latitudes Oceanic Variability Study

MAP= Mesoscale Alpine Programme

MAPS= Measurement of Atmospheric Pollution from Satellites

mb= millibar

Mbps= megabits per second

MCC= Mission Control Center

McIDAS= Man-computer Interactive Data Access System

MCP= Meteorological Communications Package, direct broadcast of operational data

MEPED= Medium Energy Proton & Electron Detector

MERIS= Medium Resolution Imaging Spectrometer

MESSR= Multispectral Electronic Self-Scanning Radiometer

METEOR= USSR Operational Weather Satellite

METEOSAT= Geosynchronous Meteorology Satellite (ESA)

MeV= mega electron volts

MF/MAGNOLIA= Magnetic Field Experiment

MHS= Microwave Humidity Sounder

MIMR= Multi-frequency Imaging Microwave Radiometer

MIPAS= Michelson Interferometric Passive Atmosphere Sounder

MISR= Multi-angle Imaging Spectro-Radiometer

MIT= Massachusetts Institute of Technology

MITI= Ministry of International Trade and Industry (Japan)

MLOPEX= Mauna Loa Observatory Photochemistry Experiment

MLS= Microwave Limb Sounder

mm= millimetre

MODIS= Moderate Resolution Imaging Spectroradiometer

MODIS-N= Moderate Resolution Imaging Spectrometer-Nadir

MODIS-T= Moderate Resolution Imaging Spectrometer-Tilt

MOHMATN= Met Office Historical night Marine Air Temperature

MOHSST= Met Office Historical Sea Surface Temperature

MOPITT= Measurements of Pollution in the Troposphere

MOS-1= Marine Observation Satellite (Japan)

MOZIAC =Measurement of Ozone on Airbus in-service Aircraft

MPE= Mission to Planet Earth

MPI= Max Planck Institut (Germany)

MPIA= Max Planck Institut für Aeronomie (Germany)

MPIC= Max Planck Institut für Chemie (Germany)

MRF= Met Office Research Flight

MRI= Meteorological Research Institute (Japan)

MSFC= Marshall Space Flight Center

MSLP= Mean Sea Level Pressure



MSS= Multispectral Scanner (Landsat)

MSU= Microwave Sounding Unit

MST= Mesosphere Stratosphere Troposphere (Radar)

MTPE= Mission to Planet Earth

MTS= Microwave Temperature Sounder

MWIR= Medium-Wavelength Infrared

N

N₂O= nitrous oxide

N₂O₅= nitrogen pentoxide

NACNEMS= North American Cooperative Network of Enhanced Measurement Sites

NAD= Nitric Acid Dihydrate

NAEI= National Atmospheric Emission Inventory (UK)

NAS= National Academy of Sciences (US)

NASA= National Aeronautics and Space Administration (US)

NASCOM =NASA Communications Network

NASDA= National Space Development Agency of Japan

NAT= Nitric Acid Trihydrate

NBIOME= Northern Biosphere Observation and Modeling Experiment

NBIS= Northern Biosphere Information System

NCAR= National Center for Atmospheric Research (US)

NCC= Network Control Center

NCDC= National Climatic Data Center

NDSC= Network for the Detection of Stratospheric Change



NDVI= Normalized Difference Vegetation Index

NERC= Natural Environment Research Council (UK)

NESDIS= National Environmental Satellite, Data, and Information Service (NOAA US)

NETC= National Environmental Technology Centre (UK)

NH₃= ammonia

NH= Northern Hemisphere

Nimbus= NASA Meteorological Satellites (1 through 7)

NILU= Norsk institutt for luftforskning (Norwegian Institute for Air Research)

NIR= Near Infrared

NIST= National Institute of Standards & Technology (US)

NIWA= National Institute of Water and Atmospheric Research, New Zealand

nm= nanometer

NMC= National Meteorological Center (US)

NO= nitric oxide

NO₂= nitrogen dioxide, nitrogen peroxide

NO₃= nitrate radical

NO_x= nitrogen oxides (NO, NO₂, NO₃)

NO_y =total active nitrogen

NOAA= National Oceanic and Atmospheric Administration (US)

NODS= NASA Ocean Data

NODIS= NSSDC Online Data and Information System Services System

NORDA= Naval Ocean Research and Development Activity

NOSS= National Oceanic Satellite System



NPOP= NASA Polar Orbiting Platform

NRC= National Research Council (Canada)

NRL= Naval Research Laboratory

NSC= Norwegian Space Center

NSCAT= NASA Scatterometer

NSF= National Science Foundation (US)

NSIDC= National Snow and Ice Data Center (US)

NSSDC= National Space Science Data Center (US)

NSTS= National Space Transportation System

NWP= numerical weather prediction

NWS= National Weather Service (US)

O

O₂= (normal) molecular oxygen

O₃= ozone

O_x= odd oxygen (O+O₃)

OCIO= chlorine dioxide

OCCM= Ocean Carbon Cycle Model

OCTS =Japanese Ocean Color Temperature Scanner

ODP= Ozone Depletion Potential

OECD =Organization for Economic Cooperation and Development (Paris)

OH= hydroxyl radical

OLS= Optical Line Scanner

ONR= Office of Naval Research



OPS= Optical Sensor

ORNL= Oak Ridge National Laboratory

OSSA= Office of Space Science and Applications (NASA HQ)

OST= Office of Science and Technology

OSU= Oregon State University

P

PAGES= Past Global Changes

PBL= ??????????????

PCMDI- Program for Climate Model Diagnosis and Intercomparison

PEM-- Particle Environment Monitor

PI- Principal Investigator

PMC- Pressure-Modulator Cell

PMIR= Pressure Modulator Infrared Radiometer

PMR= Pressure Modulator Radiometer

POEM= Polar-Orbiting Earth Mission (ESA)

POEMS= Positron Electron Magnetic Spectrometer

POES= Polar-Orbiting Environmental Satellite

POGO= Polar-Orbiting Geophysical Observatory

POLDER= Polarization and Directionality of Reflectances

POLES= Polar Exchange at the Sea Surface

ppb= parts per billion

ppm= parts per million

PPR= Photopolarimeter Radiometer

ppt= parts per trillion

PR= Precipitation Radar

PRARE= Precise Range and Rate Equipment

PRAREE= Precise Range and Rate Equipment-Extended Version

PRF= Pulse Repetition Frequency

PSC= Polar Stratospheric Cloud

PV= potential vorticity

Q

QBO= Quasi-Biennial Oscillation

R

rms= root-mean-square

rpm= revolutions per minute

rss= root-sum-square

RA= Radar Altimeter

Radarsat= Canadian Synthetic Aperture Radar Satellite

RAF= Radiation Amplification Factor

RAL= Rutherford Appleton Laboratory

RF =Radio Frequency

RIS= Reflector In Space (laser beam absorption)

RMS= Royal Meteorological Society

S

SAFARI= Southern African Fire-Atmosphere Research Initiative (BIBEX)

SAFIRE= Spectroscopy of the Atmosphere Using Far Infrared Emission



SAFISY= Space Agency Forum on the International Space Year (1992)

SAGE= Stratospheric Aerosol and Gas Experiment (I, II and III)

SAM= Stratospheric Aerosol Measurement

SAMS= Stratospheric and Mesospheric Sounder

SAO= Semi Annual Oscillation

SAR= Synthetic Aperture Radar

SARSAT= Search and Rescue Satellite

SAT =Sulphuric Acid Tetrahydrate

SBUV= Solar Backscatter Ultraviolet (radiometer)

SCANSCAT= Scanning Scatterometer

SCARABE= Scanning Radiation Budget Experiment

SCATT= Scatterometer

SCIAMACHY= Scanning Imaging Absorption Spectrometer for Atmospheric Charto (sic)

SCOPE= Scientific Committee on Problems of the Environment

SCOR= Scientific Committee for Oceanographic Research

Seasat= Sea Satellite

SeaStar= Spacecraft flying SeaWiFS

SeaWiFS= Sea-viewing Wide Field-of-view Sensors second

SEC= Science Executive Committee of the IWG

SEM= Space Environment Monitor

SERC= Science and Engineering Research Council

SESAME= Second European Stratospheric Arctic and Middle Latitude Experiment

S-GCOS= Space-based Global Change Observation System



SH= Southern Hemisphere

SI =Solar Influences

SIO= Scripps Institution of Oceanography

SIR =Spaceborne Imaging Radar

SIR-C= Shuttle Imaging Radar-C

SISEX= Shuttle Imaging Spectrometer Experiment

SLIES =Stratospheric Limb Infrared Emission Spectrometer

SME= Solar Mesosphere Explorer

SMM= Stratosphere Mesosphere Model

SMMR= Scanning Multichannel Microwave Radiometer

SMS/GOES= Synchronous Meteorological Satellite/Geostationary Operational
Environmental Satellite

SNR Signal-to-Noise Ratio

SO₂= sulfur dioxide

SO₄= sulfate radical

SOAPEX= Southern Ocean Atmospheric Photochemistry EXperiment

SORG= Stratospheric Ozone Review Group

SOLSTICE= Solar Stellar Irradiance Comparison Experiment

SPADE= Stratospheric Photochemistry, Aerosols, and Dynamics Expedition

SPAN= Space Physics Analysis Network

SPARC= Stratospheric Processes and their Role in Climate

SPE= Solar Proton Event

SPIE= Society of Photo-Optical Instrumentation Engineers



SPOT= Systeme pour l'Observation de la Terre (France)

SPSO= Science Processing Support Office

SRB= Surface Radiation Budget

SSALT= Solid-State radar Altimeter

SSBUV= Shuttle Solar Backscatter Ultraviolet radiometer

SSM/I= Special Sensor Microwave/Imager

SST= Sea Surface Temperature

STA= Science and Technology Agency (Japan)

STE =Stratosphere Troposphere Exchange

STEP= Stratosphere Troposphere Exchange Project

STERAO= Stratosphere-Troposphere Experiments: Radiation, Aerosols, and Ozone

stp =standard temperature and pressure

STRATOZ= Stratospheric Ozone Expedition

STREAM= Stratosphere-Troposphere Experiment by Aircraft Measurements

SUNY= State University of New York

SUSIM= Solar Ultraviolet Spectral Irradiance Monitor

SWIR =Short-Wavelength Infrared

SWIRLS= Stratospheric Wind Infrared Limb Sounder

SZA =Solar Zenith Angle

T

TDRSS= Tracking and Data Relay Satellite System

TED =Total Energy Detector

TERSE= Tunable Etalon Remote Sounder of Earth



TES =Tropospheric Emission Spectrometer

TGT =TDRSS Ground Terminal

TIR =Thermal Infrared

TIROS =Television and Infrared Observation Satellite

TM =Thematic Mapper (Landsat), or Team Member

TMI =TRMM Microwave Imager

TMR= TOPEX Microwave Radiometer

TOASTE= Transport of Ozone and Stratosphere Troposphere Exchange

TOGA =Tropical Ocean Global Atmosphere

TOGA/COARE TOGA/Coupled Ocean-Atmosphere Response Experiment

TOMS= Total Ozone Mapping Spectrometer

TOMUIS= 3-D Ozone Mapping with Ultraviolet Imaging Spectrometer

TOPEX/Poseidon Ocean Topography Experiment (U.S. -France)

TOR =Tropospheric Ozone Research (EUROTRAC)

TOVS =TIROS Operational Vertical Sounder

TRACT= Transport of Pollutants over Complex Terrain (EUROTRAC)

TRMM= Tropical Rainfall Measuring Mission (U.S.-Japan)

TROPOZ= Tropospheric Ozone Expedition

U

US= United States

UARS= Upper Atmosphere Research Satellite

UCAR= University Corporation for Atmospheric Research

UCD= University of California, Davis



UCI =University of California, Irvine

UCLA= University of California, Los Angeles

UCSB= University of California, Santa Barbara

UEA =University of East Anglia

UGAMP= Universities Global Atmospheric Modelling Programme

UHF= Ultra High Frequency

UK= United Kingdom

UKMO =United Kingdom Meteorological Office

UM= Unified Model

UNCED= United Nations Conference on Environment and Development (June 3-14, 1992, Rio de Janeiro, Brazil)

UNEP= United Nations Environment Program

UNESCO= United Nations Educational, Scientific, and Cultural Organization

URGENT= Urban ReGeneration and the ENvironmentT

USDA= United States Department of Agriculture

USFS =United States Forest Service

USGCRP= U.S. Global Change Research Program

USGS =United States Geological Survey

UTC= Universal Time, Coordinated

UTLS =Upper Troposphere Lower Stratosphere

UV =Ultraviolet

UWERN =University WEather Research Network

V

VAS VISSR =Atmospheric Sounder (GOES)

VHF =Very High Frequency

VIRS =Visible Infrared Scanner

VIRSR =Visible Infrared Scanning Radiometer

VIRTEM= Validation of IASI Radiative Transfer: Experiments and Modelling

VIS =Visible

VISSR= Visible/Infrared Spin-Scan Radiometer (GOES)

VNIR =Visible and Near Infrared

VOC =Volatile Organic Compound

W

W =watt

WBDCS= Wide-Band Data Collection System

WCRP= World Climate Research Program

WDC= World Data Centre (ICSU)

WEFAX= Weather Facsimile (via geosynchronous weather satellites)

WETNET= Network for Distribution and Joint Analysis of SSM/I Data (MSFC)

WFOV =Wide Field of View

WHOI= Woods Hole Oceanographic Institution

WINDII= Wind Imaging Interferometer

WMO= World Meteorological Organization

WOCE =World Ocean Circulation Experiment

WWW =World Weather Watch



WWW =World Wide Web

X

XIE X-ray= Imaging Experiment

X-SAR X-band Synthetic Aperture Radar